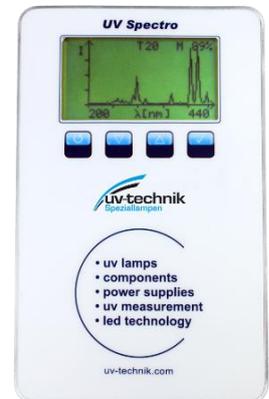


UV Spectro

UV spectral radiometer

The UV Spectro combines two functions in one device: First, it is a spectrometer for measurements in the UV range from 200 to 440 nm, in addition, it is a UV-integrator for measuring the intensity profile when passing under a medium-pressure UV lamp or UV LED. Also, the dose can be measured.

Due to its flat construction height of 14 mm, it is suitable as a pass-through unit. During the measuring process, the individual wavelengths by means of a specially-developed collation of rays with a combined diode array continuously record and store the results in the internal memory. The stored results can be compared at a later time. The measured values and the measured curves can be viewed on the built-in display. The UV Spectro works as a fully autonomous device.



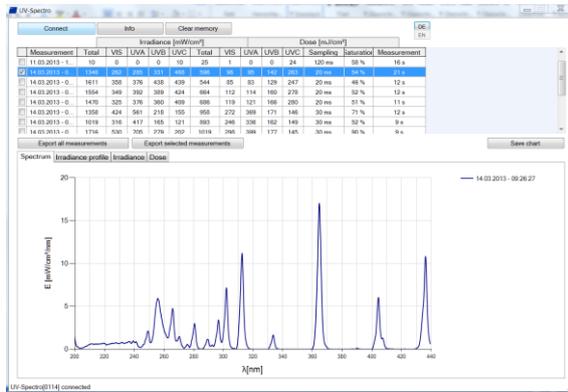
The stored measurement series can be read out on a PC via the USB interface (software included). The measured values of the intensity and the dose are shown as numbers, and the spectrum is represented as a curve. Bar graphs illustrating the irradiation intensity and the dose. 50 measurements in the device will be stored internally.

| Technical data | | |
|-----------------------|--|--|
| Art. No. | 321 02001 0000 | 321 02002 0000 |
| Spectral range | 200 – 440 nm | |
| Spectral bandwidth | 2 nm | |
| Irradiance range | 2 – 5,000 mW/cm ² | 25 – 35,000 mW/cm ² |
| Irradiance dose range | 1 mJ/cm ² – 600 J/cm ² | 25 mJ/cm ² – 4,200 J/m ² |
| Measurement time | 0 to 120 s | |
| Sensitivity | automatic or manual possible | |
| Sampling Rate | 10 ms – 1.000 ms depending from the internal sensitivity | |
| Cosinus correction | yes | |
| Display | LCD, 128 x 64 px | |
| Power source | 3 x CR 2032, > 300 measurements, > 2 years of storage | |
| Operating temperature | 70 °C | |
| Dimensions | 160 x 100 x 14.4 mm | |
| Weight | approx. 375 g | |
| Calibration | Calibration conforms to DIN EN ISO/IEC 17025 and can be traced back to PTB (Physikalisch Technische Bundesanstalt) or NIST (National Institute of Standards and Technology). | |
| Delivery | UV Spectro, plastic case, 3 x coin cell CR 2032, manual, calibration certificate | |
| Options: | In the UV Spectro one or more effect related sensitivity curves (i.e. photo initiator curves or sensitivity curves of broadband radiometers) can be stored on customers demand.* | |

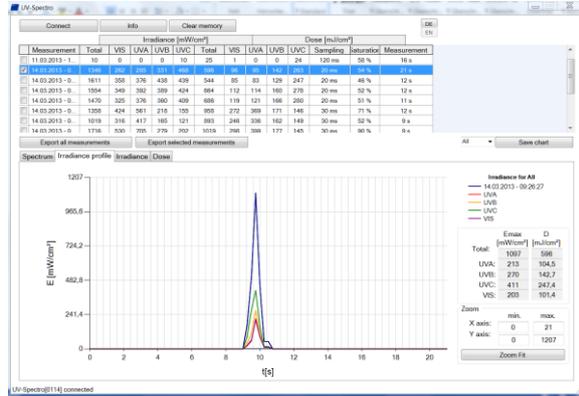
* Due to the fact that the UV Spectro measures selective wavelengths it is possible to measure optionally with sensitivity curves of filtered radiometers or to measure with effect-related curves (e.g. the sensitivity curve of a photo-initiator).

Screen shots software:

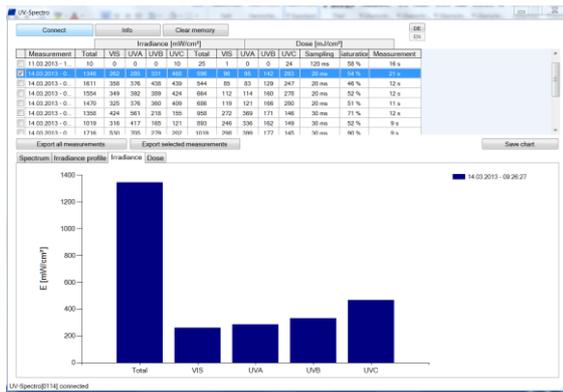
i) Spectrum:



ii) Irradiance profile:



iii) Irradiances of the uv ranges as bar charts:



iv) Doses of the uv ranges as bar charts:

